Please amend claims 1, 3, 4, 5, 7, 9-13, 15, 18, 20-33, 36, 40, 41, 45, 46, 50-59, and 61 to the pending patent application to appear as follows:

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1. A method for communicating data between a fiber optic data network and an electric power system, comprising:

communicating a first data signal with the fiber optic data network; converting between the first data signal and a second data signal; and communicating the second data signal with a transformer bypass device for communication with the electric power system.

3. The method of claim 1, wherein the first data signal is compliant with the Synchronous Optical Network standard.

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- 4. The method of claim 1, wherein a radio frequency signal is modulated by the second data signal.
- 5. The method of claim 1, wherein the first data signal is received from the fiber optic data network.

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- 7. The method of claim 1, wherein the second data signal is received from the electric power system.
- 9. The method of claim 1, further comprising routing the second data signal.

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- 10. The method of claim 1, wherein the electric power system is a low-voltage network located within a customer premise.
- 11. The method of claim 1, wherein the electric power system is a low-voltage network.

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- 12. The method of claim 1, wherein the electric power system is a medium-voltage network.
- 13. The method of claim 1, wherein the electric power system is a high-voltage network.

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15. The method of claim 14, wherein a power line interface device converts the second data signal to the third data signal.

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- 18. The method of claim 1, wherein the second data signal is communicated with a power line interface device.
- 20. A device for converting data between a fiber optic data network and an electric power system, comprising:

a first interface port for communicating a first data signal with the fiber optic data network;

a second interface port for communicating a second data signal with the electric power system;

a fiber optic transceiver in communication with the first interface port; and a modem in communication with the fiber optic transceiver and the second interface port.

- 21. The device of claim 20, wherein the fiber optic transceiver converts a fiber optic data signal received at the first interface port to an electrical data signal.
- 22. The device of claim 21, wherein the modern receives the electrical data signal and modulates a carrier signal with the electrical data signal to form a first modulated data signal for communication to the electric power system.

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23. The device of claim 20, wherein the modem demodulates a modulated data signal received at the second interface port to produce a demodulated data signal for communication to the fiber optic transceiver.

- 24. The device of claim 23, wherein the fiber optic transceiver converts the demodulated data signal to an optical signal for communication to the fiber optic data network.
- 25. The device of claim 20, further comprising a router in communication with the fiber optic transceiver and the modem.
- 26. The device of claim 20, wherein the second interface port is communicatively coupled to a transformer bypass device.
- 27. The device of claim 22, wherein the modem demodulates a second modulated data signal received at the second interface port to produce a demodulated data signal for communication to the fiber optic transceiver.
- 28. The device of claim 27, wherein the fiber optic transceiver converts said demodulated data signal to an optical signal for communication to the fiber optic data network.
- 29. The device of claim 20, wherein the electric power system is a low-voltage network located within a customer premise.
- 30. The device of claim 20, wherein the electric power system is a low-voltage network.
- 31. The device of claim 20, wherein the electric power system is a medium-voltage network.
- 32. The device of claim 20, wherein the electric power system is a high-voltage network.

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33. The device of claim 20, further comprising a conversion device to convert the second data signal to a third data signal, wherein the third data signal is capable of being transmitted on a telecommunications network.

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36. A device for communicating data between a fiber optic data network that carries fiber optic data signals and an electric power system that carries electrical data signals, comprising:

a fiber optic transceiver in communication with the fiber optic data network;

- a router in communication with the fiber optic transceiver; and
- a modem in communication with the router and the electric power system.

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- 40. The communication network of claim 36, wherein the modem communicates with the electric power system through a transformer bypass device.
- 41. The communication network of claim 36, wherein the fiber optic transceiver communicates with the fiber optic data network using the Synchronous Optical Network standard.

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- 45. The communication network of claim 36, wherein an electric transformer forms part of the electric power system.
- 46. The communication network of claim 45, further comprising a power line bridge in communication with the electric power system and the modern, the power line bridge providing a path for data to bypass the electric transformer.

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- 50. The communication network of claim 36, wherein the electric power system is a low-voltage network located within a customer premise.
- 51. The communication network of claim 50, wherein the router selects said

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low-voltage network from a plurality of low-voltage networks for transmission of data signals.

52. The communication network of claim 36, wherein the electric power system is a low-voltage network.

- 53. The communication network of claim 52, wherein the router selects said low-voltage network from a plurality of low-voltage networks for transmission of data signals.
- 54. The communication network of claim 36, wherein the electric power system is a medium-voltage network.
- 55. The communication network of claim 54, wherein the modem is coupled to the medium-voltage network.
- 56. The communication network of claim 36, wherein the electric power system is a high-voltage network.
- 57. The communication network of claim 56, wherein the modem is coupled to the medium-voltage network.
- 58. A method for communicating data between a fiber optic data network and an electric power system, comprising:

receiving a first fiber optic data signal with an optical transceiver; generating a second data signal based on the first fiber optic data signal;

modulating a radio frequency signal with the second data signal to generate a first modulated data signal; and

transmitting the first modulated data signal to the electric power system.

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59. The method claim 58, further comprising:
receiving the first modulated data signal from the electric power system;
converting the received signal to a premise-based data signal; and
providing the premise-based data signal to a network device.

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61. The method claim 58, further comprising:
receiving a second modulated data signal from the electric power system;
demodulating the second modulated data signal to provide a first demodulated data
signal;

creating a second fiber optic data signal based on said first demodulated data signal;

and

transmitting the second fiber optic data signal to the fiber optic data network.

Please add the following claim:

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62. A device for communicating data between a fiber optic data network that carries fiber optic data signals and an electric power system that carries electrical data signals, the electrical power system including a transformer, the transformer having a primary conductor and a second conductor; comprising:

a transformer bypass device having a first conductor coupled to the primary conductor of the transformer and a second conductor coupled to the secondary conductor of the transformer;

- a modem in communication with the transformer bypass device;
- a fiber optic transceiver in communication with the fiber optic data network; and
- a router in communication the modem and the fiber optic transceiver.